S/0133/64/000/003/0233/0233

AUTHORS: Frantsov, V. P. (Engineer); Moshkevich, Ye. I. (Candidate of technical sciences); Khitrik, A. I. (Engineer)

TITLE: Improving the plasticity of pipe products made of steel Kh18N1OT with nickel content of 9-10% (in collaboration with the Yuzhnotrubny*y plant)

SOURCE: Stal', no. 3, 1964, 233

TOPIC TAGS: steel Kh18N1OT, plasticity, pipe product, chromium content, ferrocerium, oxygen content, nitrogen content, ferrite fraction

ABSTRACT: Steel was poured in the usual way, but its nickel content was lowered to 9.5-10% while chromium was held to 17.6-18%. Ferrocerium (0.75-1.2 kg/T) was added to the batch 3-10 minutes before drawing and during drawing into a ladle. This process lowered the oxygen content by 55% and the content of nitrogen by 15%. An improvement of steel plasticity was observed. This was explained by the smaller ferrite fraction present in the metal. Pipes produced from this material were equal to those made of steel Kh18N10T with nickel content of 10.4-11.0%.

Card 1/2/

S/0133/64/000/003/0228/0228

AUTHORS: Frantsov, V. P. (Engineer); Moshkevich, Ye. I. (Candidate of technical sciences); Khitrik, A. I. (Engineer)

TITLE: Osvoyeniye...stali EI711... Mastering the production of steel EI711 (Khl4Gl4N3T) for sheet metal (in collaboration with TeNIIChM)

SOURCE: Stal', no. 3, 1964, 228

TOPIC TAGS: steel, steel EI711 (Khll:Gll:N3T), steel production, sheet metal, melting temperature, rolling cracks, ferrite, austenite, steel Khl3Gll:N3(DI 6), steel composition

ABSTRACT: Melting was done by the method developed for steel Khl8NlOT. The ladle temperature of the metal was about 1500-1530C. In rolling 12-ton ingots large cracks developed in the metal due to inclusions of ferrite and austenite. The present investigation led to the development of a new steel Khl3GliN3(DI-6). Its composition (in %) is:

C Mn Cr NI 0,10-0,14 13-15 12,5-14,0 2,8-3,8 SI TI P 8

Card 1/2

Because its structure was almost monophase (less than 5% of ferrite) the new steel was highly plastic and satisfied the demands of its users.

ASSOCIATION: none

SUBMITTED: 00

DATE ACQ: 27Mar64

ENCL: 00

SUB CODE: ML

NO REF SOV: 000

OTHER: 000

Card 2/2

\$/0133/64/000/003/0233/0233

AUTHORS: Frantsov, V. P. (Engineer); Moshkevich, Ye. I. (Candidate of technical sciences); Khitrik, A. I. (Engineer)

TITLE: /Ustanovleniye optimal'noy velichiny*... Determining the optimum amount of bottom trimming for ingots and reducing the carbide streaks in steel ShKhl5V

SOURCE: Stal!, no. 3, 1964, 233

TOPIC TAGS: ingots, bottom trimming, carbide streak, steel ShKhl5V, remelted steel, scrap, steel homogenizing, decarbonized layer

ABSTRACT: It was learned in the course of removing the defect known as "spotty liquefaction" from remelted Shkhl5V ingots that the amount of bottom trimming can be reduced from 20-25% to 6-7%. It was also learned that carbide streaking could be diminished by reducing the size of scrap. Forging and rolling had no influence of the development of carbide streaks. Homogenizing the ingots for 10 hours at 1160C lowered the latter defect by 0.5 point. The best results were obtained by homogenizing 100-mm squares, but the process necessitated the removal of the decarbonized layer. A scale for standardizing the estimates of carbide

Card 1/2

streakiness has been worked out.

ASSOCIATION: none

SUBMITTED: 00

DATE ACQ: 27Mar64

ENCL: 00

SUB CODE: ML

NO REP SOV: 000

OTHER: 000

Card 2/2

5/0133/64/000/003/0228/0228

AUTHORS: Frantsov, V. P. (Engineer); Moshkevich, Ye. I. (Candidate of technical sciences); Khitrik, A. I. (Engineer)

TITLE: /Vliyaniye dobavok... The influence of rare earth elements and of their oxides on the properties of stainless steels (in collaboration with Giredmet)

SOURCE: Stal', no. 3, 1964, 228

TOPIC TAGS: stainless steel, stainless steel property, rare earth element, rare earths oxide, induction furnace IV 60, Mishima alloy, ferrocerium, lanthanum, cerium oxide, praseodymium, carbonitride inclusion, titanium, steel Khl8NlOT, steel Khl7Nl3M2T

ABSTRACT: Mishima alloy, ferrocerium, lanthanum with cerium oxide, and lanthanum with praseodymium were added to experimental batches of stainless steels Khl8N1OT, Kh23N18, and Kh17N13M2T melted in induction furnace IV-60 of 45-kg capacity. Addition of Mishima alloy to titanium steel lowered the amount of carbonitride inclusions. Plasticity of steel Kh18N1OT and steel Kh17N13M2T was improved when C.1% of Mishima alloy was added to the former and O.15% to the latter. No change

Card 1/2

ACCESSION NR: AP4019471

of plasticity was noted when oxides of rare earth elements were added to steel.

ASSOCIATION: none

SUBMITTED: 00

DATE ACQ: 27Mar64

ENCL: 00

SUB CODE: ML

NO REF SOV: 000

OTHER: OOO

Card 2/2

s/0133/64/000/003/0233/0233

AUTHORS: Frantsov, V. P. (Engineer); Hoshkevich, Ye. I. (Candidate of technical ACCESSION NR: AP4019479 sciences); Knitrik, A. I. (Engineer)

TITLE: /Issledovaniye... Investigating the possibility of rolling difficult to work steels in mill 550

SOURCE: Stal', no. 3, 1964, 233 TOPIC TAGS: steel rolling, steel Khl7N2, steel EI811, steel Khl8N12W2T, steel Kh23M18, steel EI481, steel heating, steel soaking

ABSTRACT: A successful process for rolling 180-mm square shapes of steels Khl7N2 1 and E1811 was perfected. For consistent production with clear, unscarred surfaces, the metal is heated to 13200 and soaked at 13000 for 40 minutes. A process for rolling 180-mm square shapes of steels Khl8N12vi2T, 3T, Kh23N18, and ET481 was also developed.

ASSOCIATION: Elektrometallurgicheskiy zavod "Dneprospetsstell" im. A. N. Kuz'mina

Card 1/2

CIA-RDP86-00513R000413610016-9" APPROVED FOR RELEASE: 06/13/2000

ACCESSION MR: APLO19479

(Electrometallurgical plant "Dneprospetsstal"")

SUBMITTED: 00

DATE ACQ: 27Mar64

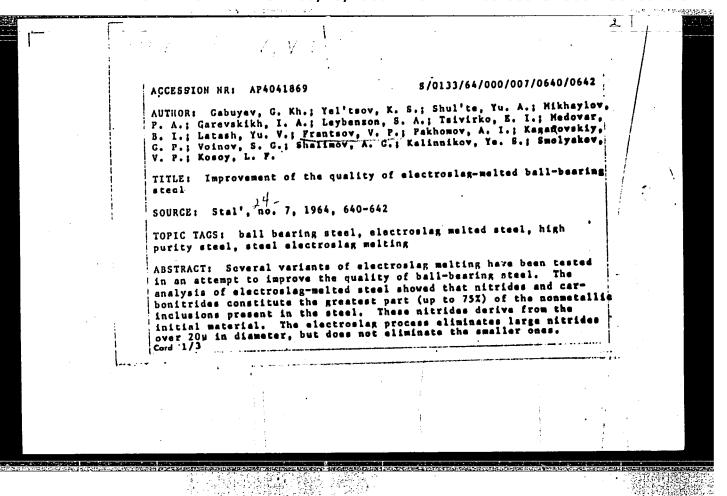
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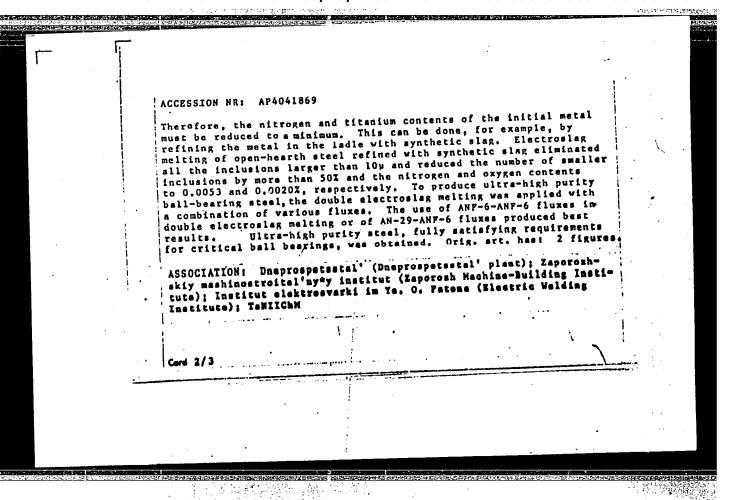
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NO REF SOV: 000

OTHER: OOO

Card 2/2





1	FRANTSOV,	V.P.)(m)-3MJW/JD/JT -		,	
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a 1 1 0	steels DI-2 (18KhCSN2MVA) 18Kh2N4VA and 20Kh2N 4VA 12KhN3A and 12Kh2N4A. T developed types stands for '	while steel DI-3A or	r EP176 was designed	to replace steels	*	

Experimental". The expenditure of nickel for the new steels averages 20 - 25 kg/ton less than for the old. Steel Di-3, which does not contain molybdenum, is recommended extens for type 12KNN3A steel. The molybdenum in Di-3 steel may be clusively as a replacement for type 12KNN3A steel. The molybdenum in Di-3 steel may be clusively as a replacement for type 12KNN3A steel. The molybdenum in Di-3 steel may be clusively as a replacement for type 12KNN3A steel. The molybdenum steel scraps of the new types, provision was made to use the chromium-nickel-molybdenum steel scraps of the new types, provision was made to use the chromium-nickel-molybdenum steel scraps of the new proper propertions of elements which promote and impede case-hardening. For this suppose the proper propertions of elements which promote and impede case-hardening. For the see the properties of the steel of the basic of suppose the proper propertions of elements with a carbon concentration in the layor, alloying elements (Cr. Mn, Si. Ni, W, Mo, V) on the carbon concentration in the layor, alloying elements (Cr. Mn, Si. Ni, W, Mo, V) on the carbon concentration in the layor, alloying elements (Cr. Mn, Si. Ni, W, Mo, V) on the carbon concentration in the layor, alloying elements (Cr. Mn, Si. Ni, W, Mo, V) on the carbon concentration in the layor.

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commended hardening to and steel DI types was fo which, on h ductility, h toughness o highly rosi conditions for these r	mperature on the mechanical impering was recommended in that steel DI-2 be used for at 150 - 200 mm. Stool DI-3A 1-3 - to 40 mm. The effect of cound to be negligible. These needing to 1,000C, remains we need to be noted as a comparable of variable loads, an importance of conditional steels is equivalent to note thing (incising). The second state of variable loads, an importance of conditional steels is equivalent to same in the new stools at the same in the same in the new stools at the same in the new stools at the same in the same i	thing-torm high-tomper high steels are distinguished by ithin 7-6 units. In terms of the high-alloy steels and rest. The article indicates for case-hardened items and techaracteristic is the enal to that of high-nickel steels at the high-alloy steels, in the high-alloy steels, in the high-alloy steels, in the high-alloy steels.	y fine grain, the size of resilience (impact otain rather good impact hat the new steels are which operate under ddurance limit, which tels. A layer-by-layer nardened layer and its but that the content of teels is the higher weaker that the grain is the higher that the grain is the higher weaker that the grain is the higher that the grain is t	oning_
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ENT(m)/ENP(z)/ENP(b)/ENA(d)/ENP(t)
UR/0133/64/000/010/945/945 51302-65 ACCESSION NR: AP5016416

AUTHOR: Frantsov, V.P. (Engineer); Khitrik, A.I. (Engineer)

TITLE: Improvement in the reduction of steel 20Kh15N3MA

SOURCE: Stal', po. 10, 1964, 945

TOPIC TAGS: steel, metallurgic process/20Kh15N3MA steel

TRANSLATION: Steel 20Khl5N3MA (DI-1) was poured into round casts weighing 1 ton which after annealing and scalping were forged into bars and electrodes for electrosleg remelting. In connection with the lack of forging means, ingots weighing 2.8 tons were rolled into electrodes for electrosiag remelting. The optimal technology for reducing ingots on an 825 mill was as follows: raising the metal temperature in the heating compartment from 800°C at a maximum rate to 1200°C, soaking at this temperature for 3 minutes per cm of cross section, and rolling with reductions of 25-30 mm per pass.

ASSOCIATION: none

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ENGL: 00

SUB CODE: NM

NO REF SOV: 000

OTHER: 000

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CIA-RDP86-00513R000413610016-9" APPROVED FOR RELEASE: 06/13/2000

KHASIN, G.A.; DAVIDYUK, V.N.; FRANTSOV, V.P., inzh.; KHITRIK, A.I., inzh.; MATVEYEV, Yu.M.; VARNAVSKIY, I.; RYSYUKOV, N.; ZHURAVLEV, S.

New developments in research. Stal' 24 no.10:880, 898, 909, 917, 930, 942, 946 0 '64. (MIRA 17:12)

SHEVCHENKO, Z.A.; FRANTSOV, V.P.; FOTAYOVA, V.P.; SPEKTOR, Ya.I.

Nature of large nonmetallic inclusions in ball bearing electric steel. Stal 25 no.5:452-454 My *65. (MIRA 18:6)

1. Zavod "Dneprospetsstal".

L 2364-66 EWT(m)/EWA(d)/EWP(t)/EWP(k)/EWP(z)/EWP(b)/EWA(c) MJW/JD/HN/
ACCESSION NR: AP5019947 UR/0133/65/000/008/0752/0753
669.187.26

AUTHORS: Yudovich, S. Z.; Abramov, V. V.; Gabuyev, G. Kh.; Frantsov, V. P.; Smolyakov, V. F.; Sypko, A. V.; Travinin; V. I.; Potapova, V. P.

TITLE: Effects of smelting and working methods on the properties of heat resistant stainless steel DI-1

SOURCE: Stal', no. 8, 1965, 752-753

TOPIC TAGS: stainless steel property, stainless steel smelting, hot rolling, forging/ DI 1 steel alloy, 20Kh15N3MA steel alloy

ABSTRACT: The effects of smelting and hot working methods on the properties of stainless steel DI-1 (20Kn15N3MA) were investigated. The metal was melted in 20-ton arc furnaces, poured into 2850 and 1000 kg ingots, part of which were hot rolled and part forged into 170- to 180-mm diameter rods. Part of the smelt was electroslag remelted and also forged or hot rolled into rods. During forging the ingots were heated to 1160-1180C, reduced to 200 x 200 mm blanks (850-900C), slowly cooled to 100-150C, reheated to 1160-1180C for final forging into rods (final temperature, 850-900C), and annealed at 660C. For hot rolling the blanks were placed at 750-800C in a recovery furnace. It was found that after remelting the oxide and sulfide Card 1/2

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ACCESSION NR: AP5019947

Content in DI-1 dropped from ball 4 and 2 (coarse scale) to ball 1.0-1.5 and 0.5 respectively. The α -phase content also decreased as did the 0, (by a factor of 2-3) and H₂ (factor of 2) contents. The properties of the arc smelted (DI-1) and resmelted (DI-1Sh) steels after heat treatment were $\delta_{\rm B} = 102.5$ kg/mm², $\delta = 12\%$,

a_K = 6.0 kgm/cm² and 107, 16.5, and 6.2 respectively. The type of hot working method (forging or hot rolling) had no appreciable effect on any of the properties, but in both cases plasticity dropped sharply for working temperatures above 12000 (because of increased α -phase formation). Orig. art. has: 2 figures.

ASSOCIATION: none

SUBMITTED: 00

L 2364-66

ENCL: 00

SUB CODE: MM

NO REF SOV: 000

OTHER: 000

BVK

Card 2/2

ACC NR. AP6032200 SOURCE CODE: UR/0133/66/000/010/0947/0947 AUTHOR: Yudovich, S. Z.; Abramov, V. V.; Sypko, A. V.; Frantsox, V. P.; Travinin, V. I.; Borisenko, I. G. ORG: none TITLE: Forgeability of heat-resistant DI-1 stainless steel SOURCE: Stal', no. 10, 1966, 947 TOPIC TAGS: Aheat resistant steel, stainless steel, martensitic steel, chromium nickel molybdenum steel, steel forging /DI-1 stainless steel ABSTRACT: The forgeability of heat-resistant DI-1 stainless steel is affected by the following factors: chemical pomposition, amount of impurities, microstructure, surface found to be the alpha-phasel content. The amount of a-phase at 1200C varies between content affects negatively the elongation and reduction of area. To improve forgeability, the heating of ingots from 900C to 1200C should be done as fast as possible, the absolute reduction should not be less than 3 min per cm of cross section, and the absolute reduction should not be more than 25—30 mm per pass. The best chemical		是我们的人们的人们的人们的人们的人们的人们的人们的人们的人们的人们的人们的人们的人们
No. 1.; Borisenko, I. G. ORG: none TITLE: Forgeability of heat-resistant DI-1 stainless steel SOURCE: Stal', no. 10, 1966, 947 TOPIC TAGS: A heat resistant steel, stainless steel, martensitic steel, chromium nickel molybdenum steel, steel forging /DI-1 stainless steel ABSTRACT: The forgeability of heat-resistant DI-1 stainless steel is affected by the condition of the ingot and chase composition, amount of impurities, microstructure, surface found to be the alpha-phasel content. The amount of α-phase at 1200C varies between content affects negatively the elongation and reduction of area. To improve forgeability, the heating of ingots from 900C to 1200C should be done as fast as possible, the absolute reduction should not be more than 25—30 mm per pass. The best chemical		
ORG: none TITLE: Forgeability of heat-resistant DI-l stainless steel SOURCE: Stal', no. 10, 1966, 947 TOPIC TAGS: heat resistant steel, stainless steel, martensitic steel, chromium nickel molybdenum steel, steel forging /DI-l stainless steel ABSTRACT: The forgeability of heat-resistant DI-l stainless steel is affected by the following factors: chemical obmposition, amount of impurities, microstructure, surface cound to be the alpha-phase content. The amount of a-phase at 1200C varies between content affects negatively the elongation and reduction of area. To improve forgeability, the heating of ingots from 900C to 1200C should be done as fast as possible, the absolute reduction should not be more than 25—30 mm per pass. The best chemical		AUTHOR: Yudovich, S. Z.; Abramov, V. V.; Sypko, A. V.; Frantsov, V. D.; Frantsov, V. V.; Sypko, A. V.; Frantsov, V. V.; Sypko, A. V.; Frantsov, V. D.
SOURCE: Stal', no. 10, 1966, 947 PARSE Composition, nickel molybdenum steel, steel forging /DI-1 stainless steel, chromium ABSTRACT: The forgeability of heat-resistent DI-1 stainless steel is affected by the condition of the ingot and chase composition, amount of impurities, microstructure, surface found to be the alpha-phase content. The amount of α-phase at 1200C varies between content affects negatively the elongation and reduction of area. To improve forgethe holding time at 1200C should not be less than 3 min per cm of cross section, and Card 1/2 Card 1/2		OPG.
SOURCE: Stal', no. 10, 1966, 947 PARSE Composition, nickel molybdenum steel, steel forging /DI-1 stainless steel, chromium ABSTRACT: The forgeability of heat-resistent DI-1 stainless steel is affected by the condition of the ingot and chase composition, amount of impurities, microstructure, surface found to be the alpha-phase content. The amount of α-phase at 1200C varies between content affects negatively the elongation and reduction of area. To improve forgethe holding time at 1200C should not be less than 3 min per cm of cross section, and Card 1/2 Card 1/2		ORG: none
TOPIC TAGS: heat resistant steel, stainless steel, martensitic steel, chromium nickel molybdenum steel, steel forging /DI-1 stainless steel is affected by the following factors: chemical pomposition, amount of impurities, microstructure, surface found to be the alpha-phasel content. The amount of α-phase at 1200C varies between content affects negatively the elongation and reduction of area. To improve forgethe holding time at 1200C should not be less than 3 min per cm of cross section, and Card 1/2		TITLE: Forgeability of heat-resistant DI-1 stainless steel
TOPIC TAGS: heat resistant steel, stainless steel, martensitic steel, chromium nickel molybdenum steel, steel forging /DI-l stainless steel / DI-l stainless steel is affected by the condition of the ingot and chase composition, amount of impurities, microstructure, surface found to be the alpha-phasel content. The amount of α-phase at 1200C varies between 3 and 8% (depending on the holding time) and between 9-20% at 1250C. The α-phase ability, the heating of ingots from 900C to 1200C should be done as fast as possible, the absolute reduction should not be less than 3 min per cm of cross section, and Card 1/2		SOURCE: Stal', no. 10 1066 old
ABSTRACT: The forgeability of heat-resistant DI-1 stainless steel is affected by the following factors: chemical composition, amount of impurities, microstructure, surface condition of the ingot and chase composition. The decisive factor, however, was 3 and 8% (depending on the holding time) and between 9—20% at 1250C. The α-phase ability, the heating of ingots from 900C to 1200C should be done as fast as possible, the absolute reduction should not be less than 3 min per cm of cross section, and Card 1/2		TOPIC TAGS: Aheat resistant steel, stainless steel, martensitic steel
		ABSTRACT: The forgeability of heat-resistant DI-1 stainless steel is affected by the following factors: chemical pomposition, amount of impurities, microstructure, surface condition of the ingot and chase composition. The decisive factor, however, was 3 and 8% (depending on the holding time) and between 9—20% at 1250C. The a-phase ability, the heating of ingots from 900C to 1200C should be done of factor forge-
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composition was essilicon 0.22—0.30%	tablished as follows:	carbon 0.19 -0.21%, 5%. Orig. art. has:	manganese 0.33- 2 figures.	-0.38%,
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L 42922-66 ENT(m)/ENP(±)/ETI IJP(c) JD/JT SOUNCE CODE: UR/0413/66/000/014/0082/0082
INVENTOR: Averchenko, P. A.; Alekseyenko, M. F.; Babakov, A. A.; Babitskaya, A. N.; Batrakov, V. P.; Bondarenko, A. L.; Gabuyev, G. Kh.; Yel'tsov, K. S.; Kulygin, G. V.; LOIA, V. N.; Orekhov, G. N.; Pridantsev, M. V.; Sklyarov, P. I.; Smolyakov, V. F.; Soroko, L. N.; Solov'yev, L. L.; Frantsov, V. P.; Shamil', Yu. P.; Moshkevich, Ye. I.; Natanov, B. S. ORG: none
TITLE: Stainless steel. Class 40, No. 183947.
SOURCE: Izobret prom obraz tov zn, no. 14, 1966, 82
TOPIC TAGS: stainless steel, chromium titanium steel, molybdenum containing steel, nitrogen containing steel, titanium containing steel
ABSTRACT: This Author Certificate introduces a stainless steel containing chromium, molybdenum, and nitrogen. In order to improve weldability, the steel has the following composition: 0.08% C, up to 0.8% Mr, up to 0.8% Si, 15—18% Cr, the following composition: 0.08% C, up to 0.08% Mr, up to 0.08% Si, 15—18% Cr, 0.2—0.6% Mo, 0.04—0.15 N, 0.4—1.2% Ti, up to 0.035 S, and up to 0.030 P. [WW]
SUB CODE: 11/ SUBM DATE: 30Jan65/AFB PRESS: SELS
Cord 1/1 /ah UDC: 669.14.018.8: 669.15'26-194

-ACC-NRi --AP6022506

SOURCE CODE: UR/0133/66/000/004/0323/0326

AUTHORS: Moshkevich, Ye. I. (Candidate of technical sciences); Gabuyev, G. Kh.; 3/Smolyakov, V. F.; Frantsov, V. P.; Grayfer, Ye. Z.; Spektor, Ya. I.; Lavrent'yev, M. I. (Engineer); Yelinson, G. L. (Engineer)

ORG: none

TITLE: Manufacture of high-alloy steels with normalized phase composition

SOURCE: Stal', no. 4, 1966, 323-326

TOPIC TAGS: alloy steel, chromium steel alloy, high alloy steel / Kh16N9M2 alloy steel, OKh18N1O alloy steel, Kh18N9 alloy steel, O4Kh17N1OM2 alloy steel /

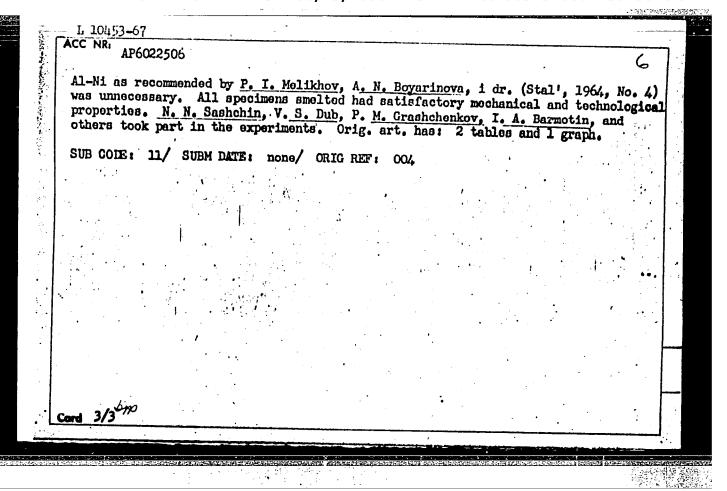
ABSTRACT: The possibility of obtaining stainless steels and intermediate type steels having a normalized phase composition (1 - 5% ferrite) under industrial conditions was studied. The experiments were carried out in electrical furnaces of 5-50 tons capacity, on charges consisting of fresh steel and scrap metal respectively. The c-phase content in the steels was maintained by chromium, nickel, and carbon additions. The phase composition was determined after the method of S. A. Iodkovskiy and N. N. Sashchin (Trudy TsNIITMASha No. 13 (Vyplavka stali i proizvodstvo stalinykh otlivok), ONTI TsNIITMASh, 1960). The experimental results are presented in graphs and tables (see Fig. 1). It was found that alloying with

Card 1/3

UDC: 669.187.2

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Fig. 1. Distribution of ferrite (9.) in 2.8-ton ingots a and b of steel OKh16N9M2. Initial composition of ingot (a) and (b) respectively: C = 0.06, 0.07%; Mn = 1.0, 1.24%; Si = 0.40, 0.18%; Cr = 15.46, 15.60%; Ni = 9.0, 9.04% 9.04% Solution of ferrite (9.) in 2.8 50 50 50 50 50 50 50 5	ACC NR ₁		. , ~~ \	
C-1 2/2	Fig. 1.	2.8-ton ingots a and b of steel OKh16N9M2. Initial composition of ingot (a) and (b) respectively: C - 0.06, 0.07%; Mn - 1.0, 1.24%; Si - 0.40, 0.18%; Cr - 15.46, 15.60%; Ni - 9.0.	10	0
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FRANTSOVA, V.

CZECHOSLOVAKIA / Pharmacology, Toxicology, Histamine and

Antihistaminic Agents

Abs Jour

: Referat Zh.-Biol., No 1, 1958, No 3419

Author

: Frantsova V., Gais I.M.

Inst

! Not given

Title

: A Comparison of the Exchange of Diphenhydramine Hyd-

rochloride and its Analogues in Rats.

Orig Pub

: Chemotherapeutika, I. Formac, sympos., Praha, 1956, 50

Abstract & No abstract.

Card

1/1

FRANTSOVA, V.; FRANTS, Z.; LAMPLOVA, I.

Developmental and species differences in the distribution of phenothiazine derivatives in the tissues of pregnant rabbits and rats and their fetuses. Physiol. bohemoslov. 12 no.2:150-155 '63.

(CHLORPROMAZINE) (MATERNAL-FETAL EXCHANGE)

(PREGNANCY, ANIMAL) (METABOLISM) (PHENOTHYAZINES)

S/133/62/000/003/003/00! A054/A127

AUTHORS: Frantsov. V. P., Malikov, G. P., Ratner, Z. M., Moshkevich, Ye. I.,

Engineers

TITLE: Casting stainless steel with magnesium-alloy chips

PERIODICAL: Stal', no. 3, 1962, 238 - 239

TEXT: Magnesium has a high affinity to oxygen and nitrogen. When magnesium is added during pouring, it binds the oxygen and nitrogen of the ingot-mold atmosphere which has a favorable effect on the metal quality. Tests were carried out with bottom-cast 2.85-ton ingots of $1 \times 18 \text{ HgT}$ (1Km18N9T) stainless steel. Prior to casting, the ingot molds were cleaned, blown through with air, covered, but not coated. The amount of magnesium necessary to bind the oxygen of the ingot mold atmosphere is 65 g/ton of ingot, while an additional 10 g/ton is required for binding nitrogen. When M Π (ML), M Π 1 (ML1), M Π 3 (ML3), M Π 5 (NL5), M Π 7 (ML7) magnesium alloy chips are used, 80 g/ton is the required quantity. The magnesium must be introduced into the aerated dry molds either by a spoon or in paper packs. The temperature of the ingot mold can be raised considerably when magnesium chips are used in pouring. Prior to the inflammation of the chips

Card 1/3

S/133/62/000/003/003/008 A054/A127

Casting stainless steel with magnesium-alloy chips

(5 - 7 sec. after pouring started), pouring must be slow. After inflammation, the chips flare up. The lower the metal level in the ingot mold, the smaller the part of the lower ingot surface which is affected by the splashing particles. After flaring up, pouring should be as quick as possible to maintain a thin film on the rising metal surface up to the end of casting. This method improves the ingot surface considerably. Only the lower part of the ingot (about 20% of the ingot height) has superficial defects; the other parts are completely clean. The steels cast with magnesium chips were tested according to FOCT 5632 (GOST. 5632) and GOST 5949-51. Their mechanical properties were better than those of conventional heats. Spectral analysis did not reveal any magnesium in the metal. No difference was found as to the corrosion-resistance of the test metal: the service life of the ingot molds used in this method is longer than that of conventional ones. The yield of flawless product was raised by an average of 💥 for various kinds of rolled products. The ingots cast with magnesium chips were ground or roughened. As in general only the lower part of the ingot has to be finished, the output in this production sector rose from 0.7 - 1.2 ingot per manshift to 2 - 3 ingots. In roughing the ingots two variants were applied: in the first, the ingot was machined only at 200 - 250 mm from the bottom (to 10 - 12 mm

Card 2/3

Casting stainless steel with magnesium-alloy chips

S/133/62/000/003/003/000 A054/A127

in one direction); in the second version the lower part was machined as in the first variant, but the other parts were also roughened to 2 - 4 mm. Roughing according to variant 1 decreased the metal losses from 65 to 1.0 - 1.55, while the output was raised 1.5 - 2 times. As, on account of technological shortcomings, there may be surface defects on the upper part of the ingots, a combined finishing method is now applied: if there are scattered defects in the middle and the upper part of the ingots, not deeper than 2 mm, they are roughened according to variant 1. If defects appear in the lower part of the ingot, 4 mm deep, this part will also be roughened according to variant 1, while defects in the middle and upper part are being removed by grinding. If the middle and upper parts of the ingot show many defects, caused by faulty technology, the ingots have to be roughened according to variant 2. This combined finishing method greatly reduced metal losses, which usually occur in roughing. Similar results were obtained with 2.8-ton ingots of 35 X HO A (35KhYuA) steel. To reduce defects in macrostructure, widened nozzles were applied and the amount of lunkerite filled in the riser was increased from 1.5 to 3 kg/ton. The flashing and spattering of magnesium is not dangerous for the workers.

Card 3/3

FRANTSUZ, A. G.

"Performance of a Diode-Voltmeter Affected by Processes of a Random Character," Radiotekhnika, No.6, pp.55-65, 1954

Translation ATIC F-TS-8547/V

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413610016-9"

SOV/106-58-9-5/17

AUTHORS: Pevnitskiy, V.P., and Frantsuz, A.G.

TITLE: The Statistical Amplitude Distributions of Radio

> Interference Pulses caused by Electrical Devices (0 statisticheskikh raspredeleniyakh amplitud impul'sov

radiopomekh, sczdavayemykh elektroustroystvami)

PERIODICAL: Elektrosvyaz¹, 1958/2Nr 9, pp 30 - 35 (USSR)

ABSTRACT: Existing methods of measuring interference are in terms

of a so-called "quasi-peak" value which is an averaged indication using an inertia detector. For the majority

of practical purposes it is sufficient to know the following: 1, the probability distribution of amplitude

of the oscillatory noise pulses; 2, the probability characteristics of the time interval between the pulses.

It is assumed here that the form and duration of the

elementary noise pulses at the output of the i.f.

amplifier of a noise-measuring receiver is completely

determined by the pass-band characteristics of the ampli-

fier. One of the authors (A.G.F.) has shown in Ref 1 that, for a given detector time constant, the quasi-peak

Card 1/6 value is a function of the parameters mentioned above. A

great deal of work has been published on interference, in

The Statistical Amplitude Distributions of Radio Interference Pulses caused by Electrical Devices

other countries where different standards have been adopted and direct comparison of results is not possible. The present work is devoted to a study of the first statistic. The second is not examined closely, but to a first approximation it is characterised by the mean pulse repetition frequency. If the pulses appear as independent events and the probability of a pulse appearing in a small interval Δt is proportional to $\hat{\Delta}t$ (Poisson process), then the mean frequency is a sufficient measure of the time interval distribution. In other cases the frequency is only a necessary measure. Table 1 lists the various sources of interference which have been studied. These include: electric motors with brushes, devices for acoustic signalling using electromagnetic interruption of current, the ignition systems of internal combustion engines, various domestic sources (such as electric shavers), electric model railways, relays, cash registers, gas-discharge tubes. The measurements have been carried out with the aid of a single-channel analyser which owes some of its design to

Card 2/6

The Statistical Amplitude Distributions of Radio Interference Fulses caused by Electrical Devices

that by Ya. I. Likhter but differs in that it resembles more the practice in nuclear physics in having an arrangement for recording the number of pulses whose amplitudes lie between certain defined levels. A block schematic is shown in Fig 1. The video impulses from the output of an inertialess detector at the end of the i.f. amplifier are further amplified and fed to two amplitude discriminators which respectively pass all pulses which are greater than one voltage level and less than another (greater) voltage level. The outputs from the discriminators are combined in an anti-coincidence mixer and then The discriminator outputs are pulses of height equal to the limiting levels and of opposite polarity. The width of the upper-level pulses is greater than that from the lower-level discriminator. In the experiments which are described, the difference in levels was kept constant at 3V, The counters were allowed to run for successive equal periods of time and the entire range of pulse amplitudes explored. The distributions obtained are truncated since a correction had to be applied to allow

Card 3/6

The Statistical Amplitude Distributions of Radio Interference Pulses caused by Electrical Devices

for the background noise present in the equipment. priori considerations and also the character of the results themselves argue that the complete distribution follows a log-normal law. (That is to say, the distribution is normal when the voltages are expressed in decibels relative to some fixed level). The results should thus be expressible in terms of the equation at the top of page 33. The essential parameters here are u and o, the mathematical expectation and standard deviation respectively. The experimental values were evaluated with the aid of Hald's tables. Correlation diagrams are shown in which the theoretical and experimental results are plotted mutually. These are for 5 brush-carrying machines of various types (Fig 2), 11 acoustic signalling devices (Fig 3), a series of measurements on model railways operating in different ways (Fig 4), typical cash registers (Fig 5), ignition systems for internal combustion engines (Fig 6) and fluorescent lighting tubes (Fig 7). The fact that most of these-diagrams consist of a straight line at

Card 4/6

The Statistical Amplitude Distributions of Radio Interference Pulses caused by Electrical Devices

45 degrees verifies the previous assertion. The departure from complete correlation at the upper end of the diagram is due to non-linearity in the receiver at outputs of 50V and more. Deviations at the lower end of the diagram are due to lowered accuracy at these levels and the residual effects of system noise. The mean pulse repetition frequency is some 10 - 20 times greater than the mechanical interruption frequency. This is due to contact bounce and the occurrence of sparkover and arcing. Table 1 summarizes the statistical parameters and the mean pulse repetition frequency for all the sources measured. The author thanks Cand. Tech. Sc. D. N. Shapiro

Card 5/6

SOV/106-58-9-5/17

The Statistical Amplitude Distributions of Radio Interference Pulses caused by Electrical Devices

for valuable advice and discussion. An active part was also taken by Al'tshul'-Serèbrennikova.

There are 7 figures, 1 table and 4 references, three of which are Soviet.

SUBMITTED: March 24, 1958

Card 6/6

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413610016-9

FRANTSUZ, A.G.; TONKONOGIY, I.M.; LEVIN, I.Ya.

Use of electronic computers for solving problems of differential diagnosis in aphasia. Zhur. nevr. i psikh. 64 no. 12:1759-1765 '64. (MIRA 18:1)

1. Laboratoriya meditainskoy psikhologii (nauchnyy rukovoditel'prof. V.N.Myasishchev) i nefrologicheskoye otdeleniye (nauchnyy
rukovoditel' - prof. G.Z.Levin) Nauchno-issledovatel'skogo
psikhonevrologicheskogo instituta im. Bekhtereva, Leningrad.

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413610016-9"

"APPROVED FOR RELEASE: 06/13/2000 (

CIA-RDP86-00513R000413610016-9

L 28708-66 [ST(8)/T/EW7(1) [JP(c) RB/GG.

ACC NR: AP6005761

SOURCE CODE: UR/0280/65/000/005/0074/0084

AUTHOR: Frantsuz, A. G. (Leningrad)

ORG: None

TITLE: An algorithm for pattern recognition 16/

SOURCE: AN SSSR. Izvestiya. Tekhnicheskaya kibernetika, no. 5, 1965, 74-84

TOPIC TAGS: pattern recognition, algorithm, recognition process

ABSTRACT: The author investigates an algorithm for teaching pattern recognition, applicable to a broad class of problems. The effectiveness of the algorithm depends only slightly on the variations within a sufficiently broad limit of the nature and the configuration of the regions of classes in a vector space of object description. Another unique feature of the algorithm is that with a somewhat optimal minimization of the description, there is no utilization of the redundancy of subspaces in the description space. The methodology investigated is based on the mathematical formalization of the concept of similarity. The author presents the computational procedure of teaching pattern recognition for a space with binary coordinates and gives an illustrative example. In contrast to some other pattern recognition algorithms, the present algorithm makes it possible to conduct teaching as well as recognition with a small number of objects in the teaching selection without the aid of an electronic computer. Of

 C_{ard} 1/2

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413610016-9

L 23708-66 ACC NR: ADG0053			•	
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independent inter functional image formulas.	est are some of the recognition appara	e analogies between the tus by biological image	e algorithm examined and the e analyzers. Orig. art. has:	21
SUB CODE: 06,	12 / SUBM DATE:	29Apr65 / ORIG REF:	002 / OTH REF: 001	
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APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413610016-9"

ACCESSION NR: AP4001834

s/0203/63/003/006/1108/1114

AUTHORS: Kapustin, I. N.; Kotkin, B. A.; Smirnov, V. S. Frantsuz, E. T.

TITLE: Some considerations of the design and plan of a neutron monitor

SOURCE: Geomagnetizm i aeronomiya, v. 3, no. 6, 1963, 1108-1114

TOPIC TAGS: neutron monitor, cosmic ray nucleon component, cosmic ray intensity variation, neutron monitor construction, nuclear physics, neutron counter, neutron monitor parameters, neutron detector, cosmic ray neutron, neutron energy spectrum, gas stabilitron, neutron monitor voltage standard, cosmic ray intensity, cosmic ray counter, cosmic radiation, nuclear particle

ABSTRACT: The basic parameters for a neutron monitor for measuring cosmic rays have been discussed and their individual accuracies evaluated. These entail first the change in the sensitivity of the detector defined by $A = \sum_{k} M_k a_k$, where $a_k = counter$ sensitivity in the k-th pocket cross section, $M_k = sensitivity$ of this pocket relative to cosmic rays, given within an accuracy of $M_k = sensitivity$ of this regulator suitable for 2000-volt applications for which a gaseous stabilizer is considered with an accuracy of 0.05%. Thirdly, the transmission coefficient of

Card 1/2

ACCESSION NR: AP4001834

the amplifier track, which is considered to be a function of input impedance, input capacity, noise level, and amplifying coefficient of the amplifier. The latter is set at a limit of 4 to 8 x 10 3 . Finally, the monitor includes a zero shift stabilizer with better than 10% accuracy and dead time limit of 200 to 1000 μ sec and a recorder of type STA-2M or LTA-57. Orig. art. has: 3 figures.

ASSOCIATION: Polyarnywy geofizicheskiy institut, Kol'skogo filiala AN SSSR (Institute of Polar Geophysics Kola Department AN SSSR)

SUBMITTED: 22Feb63

DATE ACQ: 17Dec63

ENCL: 00

SUB CODE: AS

NO REF SOV: 005

OTHER: OOL

Card 2/2

AUTHOR: Lazutin, L. L.; Frantsuz, E. T.

TITLE: Radio probe for the measurement of cosmic-ray density in the stratosphere. [Report presented at the Vsesoyuznoye soveshchaniye po fizike kosmicheskikh luchey (All-Union Conference on the Physics of Cosmic Rays), held at Moscow, 4-10 October 1963]

SOURCE: AN SSSR. Izvestiya. Seriya fizicheskaya, v. 28, no. 12, 1964, 2085-2086

TOPIC TAGS: radiosonde, radiation measurement, solar radiation, cosmic radiation, cosmic ray density, gas discharge counter, two counter telescope

ABSTRACT: A new radio probe for measuring cosmic-ray density in the dionosphere, particularly solar radiation, is described. The design of the RKL-4 probe (see Fig. 1 of Enclosure) was based on experimental data collected during the IGY. Registration of charged particles is accomplished with either a single STS-6 gas-discharge counter or a two-counter telescope. Pulses from counters 1 and 2 (Fig. 1) are applied to the collector and base of transistor 3, which is operating under keying conditions; i.e., a negative pulse from counter 1 passes to the output only when transistor 3 is closed by a positive pulse from counter 2. A blocking oscillator

Card 1/47

L 20233-65

ACCESSION NR: AP5002108

based on transistor 4 creates a positive pulse of 300 µsec, triggering the tube 5 of the telemetry transmitter (frequency range, 80—90 Mc). In the RKL-4 with a single counter, the keying circuit is eliminated; a pulse from the counter directly triggers the blocking-oscillator. In this case the shaping circuit is blocked by the barograph contact, and the counting ceases. Substitution of a copper chloride-magnesium battery for the usual dry-battery set sharply increases the utilization factor of the chemical supply source. Tests carried out during the second and third quarters of 1963 demonstrated the reliability of the RKL-4 probe for 7—8-hr operation. Strady signal reception was secured in ascent, descent, and even drift (4—5 hr) at 25—30 km. Maximum altitude was 35 km. Since January 1964, regular daily flights of the probe have been made. Orig. art. has: 1 figure.

ASSOCIATION: none

SUBMITTED: 00

ENCL: 01

SUB CODE: EC, AA

NO REF SOV: 002

OTHER: 000

ATD PRESS: 3163

Card 2/3

"APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000413610016-9

EWT(1)/FCC/EWA(h) GS/GW ACCESSION NR: AT5022840

UR/0000/65/000/000/0279/0279

AUTHOR: Frantsuz, E.

TITLE: On the organization of stratospheric observations of cosmic rays in Apatity

SOURCE: Nysesoyuznoye soveshchaniye po kosmofizicheskomu napravleniyu issledovaniy kosmicheskikh luchey. 1st, Yakutsk, 1962. Kosmicheskiye luchi i problemy kosmofiziki (Cosmic rays and problems in space physics); trudy soveshchaniya. Novosibirsk, Redizdat Sib. otd, AN SSSR, 1965, 279

TOPIC TAGS: radiosonde, cosmic ray measurement

ABSTRACT: A new radiosonde employing STS-6 gas-discharge counters for measuring cosmic-ray intensity 15 reported. The coincidence circuit and modulator are comprised of P-13 transistors. Resolving time of the coincidence circuit is 20 µsec; its input capacitance is 10-pf. The transmitter, based on the Z-36 radio set, has a 500-usec pulse duration and operates in the 200-Mc range. The power supply for the radio circuit consists of two copper-magnesium chloride batteries. Each battery weighs 200 g and is capable of producing 25-uamp load current at 50 v for 2 hr. The high-voltage circuits of the discharge counters are supplied by a transistorized

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ZOTOV, I.S.; GOVSIYEVICH, R.Ye.; KUTSIN, B.H.; FRANTSUZ, R.A.; ORLOV, N.A., prof., retsenzent; YAMPOL'SKIY, Ye.S., inzh., red.

[Economic analysis of projects of machine manufacturing plants] Ekonomicheskoe obornovanie proektov mashinostroitel'nykh zavodov. Moskva, Izd-vo "Mashinostroenie," 1964. 398 p. (MIRA 17:6)

6(4), 7(7)

SOV/108-13-12-8/12

AUTHORS:

Kozina, O. G., Frantsuzov, A. A.

TITLE:

On Selective RC Amplifiers (Ob izbiratel'nykh

RC-usilitelyakh)

PERIODICAL:

Radiotekhnika, 1958, Vol 13, Nr 12, pp 64-71 (USSR)

ABSTRACT:

The behavior of a selective amplifier with a double T-bridge in the feedback circuit with little variations of the bridge parameters (especially the influence of the parameters on the self excitation) is investigated. A new circuit diagram for the feedback connection is given. The calculation of the amplifier with respect to the finite size of the leakage and load resistance is carried out. The results of calculation are checked by experiments. The calculated results agree with the measurements within the limits of measuring accuracy. There are 11 figures,

1 table, and 3 Soviet references.

SUBMITTED:

March 8, 1957 (initially) and March 11, 1958 (after revision)

Card 1/1

CIA-RDP86-00513R000413610016-9" APPROVED FOR RELEASE: 06/13/2000

5/120/61/000/006/037/041 E034/E485

AUTHOR 5

Frantsuzov, A.A.

TITLE :

The magnetic properties of brass

PERIODICAL: Pribory i tekhnika eksperimenta, nc.6, 1961 146-147

In tests on nuclear-magnetic resonance certain brass parts of the apparatus were found to have magnetic properties and so interfered with the tests. Accordingly, the permeability of a number of brass specimens was studied by observing whether the presence of a flat specimen altered the magnetic field in an air The nuclear-magnetic resonance signal was observed with an amplitude bridge circuit with which the permeability could be measured to an accuracy of 1 x 10.5. Ductile brasses grades 762 (L62) and \$68 (L68) had a susceptibility less than 10.4 but hard brasses containing tin, lead, etc had appreciable susceptibility which varied from one specimen to another, the values for three samples of grade $\Re \circ 59$ (LS59) being 1.2 x 10^{-2} , 2.4×10^{-3} and 1.7 x 10^{-3} . The first two of these samples were found to have iron contents of 0.44% and 0.09% respectively. Presumably some of the iron is in the form of ferromagnetic

Card 1/2

The magnetic properties of brass

S/120/61/000/006/037/041 E034/E485

inclusions. Accordingly, when very uniciampress 005138000413610016-9" is APPROVEDED of two component brass such as grade L62. inclusions。 There are 1 figure and 2 references 1 Soviet blcc and 1 non-Soviet-bloc. The reference to an English language publication reads as follows: Ref. 1: H.A. Thomas R.D. Hunton, Rev. Scient.

ASSOCIATION: Fiziko tekhnicheskiy institut AN SSSR (Physicotechnical Institute AS USSR)

SUBMITTED

March 27, 1961

39162 5/120/62/000/003/028/048

AUTHORS: Namvrin. B.A.

Mamyrin, B.A., and Frantsuzov, A.A.

TITLE:

A high-resolution resonance mass spectrometer

E032/E114

PURIODICAL: Pribory i tekhnika eksperimenta, no.3, 1962, 114-119

A high-resolution spectrometer is described in which the ions are separated according to their time-of-flight in a uniform magnetic field. The device is similar in principle to that described by L.G. Smith and C.C. Damm (Rev.Scient.Instrum., 27, 1956, 638). In distinction to the latter device, in the present spectrometer the ion beam is swept from the centre to the periphery, so that the beam can be extracted and an ordinary electron multiplier can be used as a detector. 'A single-turn orbit is employed so that the effective magnetic field can be determined more accurately, and a grid modulator is used so that a more uniform field can be produced at small distances between the modulator electrodes. The device is illustrated schematically in Fig.1. The current at the output is recorded with the aid of an open-input electron multiplier, as shown in Fig. 5. instrument operates in the mass range M/e = 10 - 40. Card 1/# 7

A high-resolution resonance mass ... S/120/62/000/003/028/048 E032/E114

The resolution is of the order of 25,000 to 35,000 at a dispersion of 300 to 500 mm per 1% mass change. There are 6 figures.

ASSOCIATION: Fiziko-tekhnicheskiy institut AN SSSR

(Physicotechnical Institute AS USSR)

SUBMITTED: November 5, 1961

Card 2/17

I. 18261-65 EWT(m) DIAAP/SSD/SSD(c)/AFWL/AS(mp)-2

ACCESSION NR: AP5000911

S/0020/64/159/004/0777/0778

AUTHOR: Memyrin, B. A.; Frantsuzov, A. A.

TITLE: New measurement of the proton magnetic moment

SOURCE: AN SSSR. Doklady, v. 159, no. 4, 1964, 777-778

TOPIC TAGS: proton, magnetic moment, spin precession, hydrogen nucleus, ion cyclotron frequency, Faraday number

ABSTRACT: The cyclotron frequencies of the ions He⁺, Ne²⁺, and Ne⁺ were measured with a magnetic-resonance mass spectrometer iescribed by the authors elsewhere texhn. eksp., No. 3, 114, 1962). At the same time, the frequency of the original hydrogen nuclei in a water damped to magnetic dimensionally magnet, making it possible to determine to magnet. Water of the intimal to measure the cyclotron period of the ions during a single revolution that is in the magnetic field, and deduce from this an exact theory of the matter of the ions in the instrument and to calculate the cyclotron frequency of the ions on the basis of experimental data without resorting to any supplementary

Card 1/3

"APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000413610016-9

L 18261-05

ACCESSION NR: AP5000911

2

assumptions. The results obtained by other investigators and in the present work are listed in Table 1 of the enclosure, which shows that the present method yields a much smaller experimental error. In addition, the authors calculated the Faraday number and found it to be $9,648.03 \pm 0.09$ Coulomb/mole in the C^{12} mass scale (against $9,651.42 \pm 0.09$ in the old physical mass scale). This report second by Arademician B. P. Konstantinov. Criz. art. Tari 1 taris

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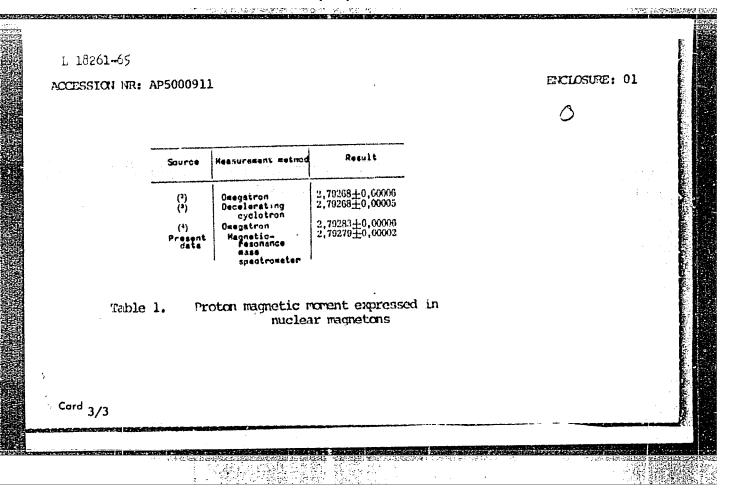
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Card 2/3



<u>L 40774-65</u> EWT(m)/T/EWA(m)-2 ACCESSION NR: AP5006487

\$/0056/65/048/002/0416/0428

AUTHORS: Mamyrin, B. A.; Frantsuzov, A. A.

0

TITLE: Measurement of the magnetic moment of the protons in units

of the nuclear magneton

SOURCE: "hurnal eksperimental'noy teoreticheskoy fiziki, v. 48,

no. 2, 1965, 416-428

TOPIC TAGS: proton, magnetic moment, mass spectrometer, magnetic

resonance

ABSTRACT: A new technique is proposed for measuring the magnetic moment of the proton, in nuclear magneton units, whereby the cyclotron frequency is measured in a single revolution of the ions in the apparatus. Earlier techniques did not possess this advantage. The procedure is based on the use of a magnetic resonance mass spectrometer, described by the authors earlier (PTE, no. 3, 114, 1962), whose

Card 1/3

L 40774-65 ACCESSION NR: AP5006487

4

operating parameters were changed to accommodate lighter masses. The measurements were performed with He_4^+ $\operatorname{Ne}_{20}^{++}$ and Ne_{20}^+ ions. The measuring technique, some units of the apparatus, and the various corrections introduced are described. The magnetic moment of the proton (without correction for the diamagnetic shielding of the hydrogen backs in water) is found to be 2.79279 ± 2 nuclear magnetons. The spread of the measurements is equivalent to $\pm 3.5 \times 10^{-6}$ rms relative error. The total rms relative experimental error is $\pm 6 \times 10^{-6}$. "The authors thank Professor N. N. Ionov in whose Laboratory this work was done for support and discussions, and V. A. Zagulin, who participated in the design of the electronic apparatus, and B. N. Shustrov for

ASSOCIATION: Fiziko-tekhnicheskiy institut im. A. F. Ioffe Akademii nauk SSSR (Physicotechnical Institute, Academy of Sciences SSSR)

many .sefel discussions." Orig. art. has: 6 figures and 15 formulas.

Card 2/3

MAMYRIN, B.A.; FRANTSUZOV, A.A.

Measurement of the magnetic moment of the prote in nuclear magnetons. Zhur. eksp. i teor. fiz. 48 no.2:416-428 F '65.

(MIRA 18:11)

1. Fiziko-tekhnicheskiy institut imeni A.F. Ioffe AN SSSR.

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413610016-9"

FRANTSUZCV, B. L.

PA 47/49T50

USSR/Medicine - Aphonia and Dysphonia Jan/Feb 49
Medicine - Voice, Therapy

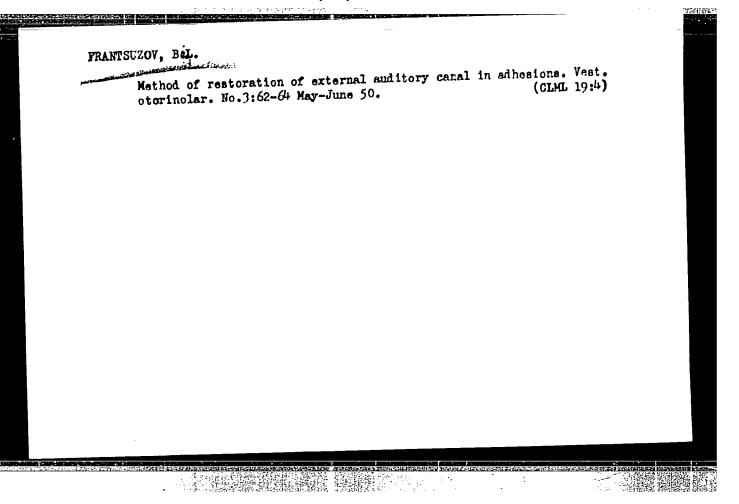
"Therapy for Functional Aphonia and Dysphonia," Lt Col B. L. Frantsuzov, Med Sv, Cand Med Sci, LOR Dept, Kiev Dist Mil Hosp, 4 pp

"Vest Oto-Rino-Laringol" No 1

Describes studies of several cases. Investigators concluded that so-called method of "fixation and supporting" of the larynx was as effective as contemporary orthophonic and other methods. Fixation of the larynx was quite effective in treating fatigue aphonia.

47/49750

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413610016-9



FRANTSUEOV, B. L.

Endobronchial method of the treatment of pulmonary abscesses with penicillin. Vest. otorinolar., Moskva 13 no.5:72-75
Sept-Oct 1951. (CIML 21:1)

1. Candidate Medical Sciences. 2. Kiev.

FRANTSUZOV, B.L., kandidat meditsinskikh nauk (Kiyev). Conservative therapy in mastoiditis. Vest.oto-rin. 15 no.5:26-31 8-0 153.

(MIRA 6:11) (Mastoid process--Diseases)

FRANTSUZOV, B. SHVARTSBERG, Ya.; FRANTSUZOV, B. Activities report of the Kiev branch of the Ukrainian Society of Otorhinolaryngologists for the year 1953. Vest. oto-rin. ly no.4: 90-92 J1-Ag '54. (HIRA 7:8) (UKRAINE-OTORHINOLARYNGOLOGY-SOCIETIES) (OTORHINOLARYNGOLOGY-SOCIETIES-UKRAINE)

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413610016-9

FRANTSUZOV, B.L., kendidat mediteinskikh nauk (Kiyev).

Technique of restoration of partial defects of the helix. Vest. oto-rin. 16 no.1:41-43 Ja-F '54. (MIRA 7:3)

(Ear--Surgery)

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413610016-9

FRANTSUZOV, B. L.; BORODYANSKAYA, A. N.

"The Problem of the Significance of Diseases of Throat, Ear, and Nose in the Pathogenesis of Grippe and Colds," Voyenno-Med. Zhur., No. 11, p. 65, 1955.

FRANTSUZOV, B.L., kandidat meditsinskikh nauk(Kiyev)

Ossification of the auricles of the ear. Vest. oto-rin. 17 no.6:66-67 N-D '55. (MIRA 9:2)

(MAR, EXTERNAL, diseases, ossification of auricles)
(OSSIFICATION, auric. of ear)

FRANTSUZOV, B.L., kand.med.nauk, POLYAK, L.A., FEYGIN, H.P., (kiyev)

Antibiotic therapy in chronic highmoritis. Vest.oto.-rin. 20 no.4
104-105 J1-Ag '58
(ANTIBIOTICS)
(SINUSITIS)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413610016-9"

FRANTSUZOV, B.L., kand.med.nauk

Diagnosis and treatment of neuralgias of the superior laryngeal nerve of a peripheral nature. Zhur. ush., nos. i gorl. bol. 20 no.5:52-56 S-0 '60. (MIRA 14:6)

1. Iz otolaringicheskogo otdeleniya Kiyevskogo okruzhnogo gospitalya. (LARYNGEAL NERVE DISEASES)

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413610016-9

FRAN. SUZOV, B.L., kand.med.nauk

Nikolai Pavlovich Trofimov. Zhur. ush., nos. i gorl. bol. 21 no.3: 87-88 My-Je '61. (MIRA 14:6) (TROFIMOV, NIKOLAI PAVLOVICH, 1861-1918)

VEREMEYENKO, K.N., dotsent; FRANTSUZOV, B.L., kand. med. nauk

Use of proteclytic enzymes in otolaryngology. Zhur. ush.,
nos. i gorl. bol. 23 no.1:80-83 Ja-F '63.

(MIRA 17:2)

FRANTSUZOV, B.L., kand.med.nauk; VEREMEYENKO, K.N., dotsent.

Extending the possibilities of tympanoplasty by the use of chymotrypsin. Zhur.ush. nos. i gorl. bol. 23 no.2:14-18 Mr-Ap 163. (MIRA 16:8)

1. Iz obahchego klinicheskogo otdela i laboratorii biokhimii Nauchno-issledovatel'skogo instituta otolaringologii Ministerstva zdravookhraneniya UkrSSR (dir. i nauchnyy rukovoditel' zasluzhennyy deyatel' nauki prof. A.I.Kolomiychenko). (TYMPANAL ORGAN-SURGERY) (CHYMOTRYPSIN)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413610016-9"

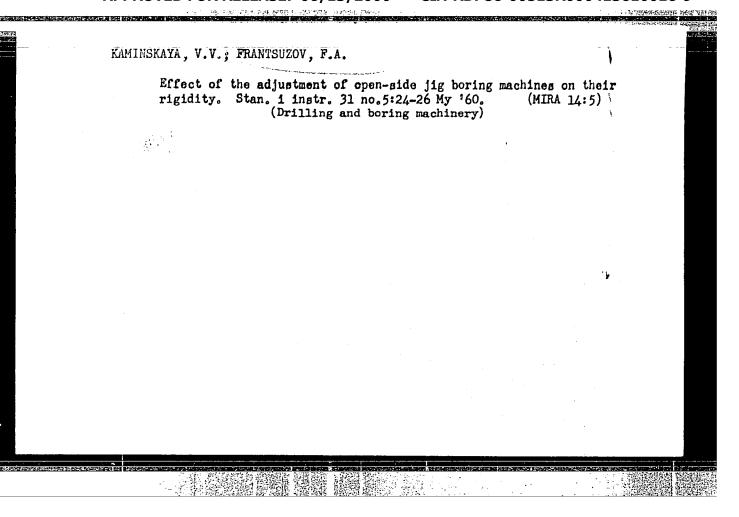
FRANTSUZOV, D. L.

Conservative therapy in masteiditis. Vest. eterinolar., Moskva 15 no.5:26-31 Sept-Oct 1953. (CIME 25:5)

1. Candidate Medical Sciences. 2. Kiev.

MILICHENKO, S.L., inzh.; RAZIKOV, M.I., kand. tekhn. nauk; KOCHEVA, G.N., inzh.; KASHCHEYEV, V.A., inzh.; FRANTSUZOV, D.M., inzh.

Repair of the rotor wheel of a hydraulic turbine using builtup welding with a cavitation resistant layer. Elek. sta. 35 no.5:37-41 My '64. (MIRA 17:8)



• ০ জালা সল<u>ু চলৰ সংক্ৰান্ত কৰ্</u>তি ছবু চ

"We Will Faitli Our Obligations," I. K. Frantsazov Director of the Wool Factory imeni Endoy, 1 p "Tebrill From" Vol VII, Eo 8 By 1 Jul, the factory overfulfilled its norm by ill thousand woolen yarns and 61 meters of coarse and finished fabric. By end of year expect to overfulfill plan by 80 thousand yarns and 100 meters of coarse and finished fabric. Frews speed of self-active males was 4.5 to 8.8 from carriage while during the war it was 4. Today the speed is 5. The Banger carriage makes 58 revolutions per minute today. Currently 360 meters of thread are wound around 10. 10. 10. 10. 10. 10. 10. 10.	FRANTSUZOV, I. K.		12051
HO SHOWS HIP SHOW	0010°51钟,me	Will Fulfill Our Obligations, "I. K. Fretor of the Wool Factory imeni Endoy, I still From" Vol VII, Ho 8 Jul, the factory overfulfilled its now sand woolem yarns and 61 meters of coarshed fabric. By end of year expect to plam by 80 thousand yarns and 100 meters of thousand yarns and 100 meters of thished fabric. Prevent speed of semiles was 4.5 to 4.8 from carriages withe war it was 4. Today the speed is 5 ger carriage makes 58 revolutions par m Currently 360 meters of thread are won fearfiles 4415.0700 (Comtd) Modernization of equipment, such as of wooden bobbins with duralumin ones, if o planned and actual figures for 1947 reductivity of equipment and labor.	
		THE SHOW	ន

NIKITIN, Mikhail Nikitich; ALESHIN, Petr Antonovich; ERONYAKIN, Viktor Petrovich; ISTOMINA, Tat'yana Ivanovna; GREKOV, Andrey Ivanovich; LIOZHOV, A.G., redaktor; FRANTSUZOV, I.K., retmenment; NKKRASOVA, O.I., tekhnicheskiy redaktor

[Construction, assembly and adjustment of automatic looms ATS-9M and AT-175Sh] Ustroistvo, montazh i naladka avtomaticheskikh tkats-kikh stankov ATS-9M i AT-175Sh. Izd.2-ce,perer. i dop. Moskva, Gos. nauchno-tekhn. izd-vo Ministerstva tekstil'noi promysh. SSSR, 1955. 211 p. (MIRA 9:3)

(Looms)

FRANCE	$VZ.\epsilon V_j$	1.1.						
PRICE : FOR ECFECITATION \$27/54/2 Donakoy, Ya. Ye., G.I. Kardash, and I.P. Lyai, riv, ede. Mohanitatatis 1 or tonatizatis; shortik state; cb cpre vmedraciya pehhanitatis! I writematizatis in a har-tongkhh mashrosationic ton sud Automation; Collection of Articles on the lateralists of Mochanitation and Automation; Collection of Articles on the lateralists of Mochanitation and Automation in Rhar kow Machinery-Manufacturing Fixers (Raar box)	Editorial Boards 20. Vorobytev, Gandidate of Technical Sciences; Chairman of the Editorial Boards 20. Vorobytev, Gandidate of Technical Sciences; Chairman of Technical Sciences; A. Ye. Komor, Decent, A.I. Cystayo, Candidate of Technical Sciences, and S.M. Krasty, Candidate of Technical Sciences; Eds.: Ye. Endustry, C. Endustry, and I.P. Lyslynk; Tech. Eds.: Ye. Foreboard, C. Endustry, and I.P. Lyslynk; Tech. Eds.: Wil. Limanora, Puncol: This collection of articles is abstrated for technical and scientific personnel, outstanding outstanding abstratic.	COVERACE: The multiflected experience of Khar'kor enterprises in the sechanication, authoration, and improvement of manufacturing processes is generalized. The development of new promertion persons is considered and attention is given to newly setablished enterprises, and the introduction of believed in 18 given to newly setablished enterprises, and to the introduction of believed in Sharing in the enterprises, and to the introduction of the setablished enterprises and extensive facts; the author of the various articles attempt to demonstrate the activersaries of the farty to the various complex in fulfilling the resolutions of the flux (1995) and July (1995). Themse of the Centural Community there is consistent of the Centural Community there is a formation of the Centural Community there is no references.	State of corrects; Shabenko-Shubie, L.A. [Corresponding Nember of the Academy of Sciences of the OutSil, Plate Designer of the Rar-lorekly turbinary saved East-lor Turbine Plant, The Previous of Stean-Turbine Pulliding at the East's Turbine Plant; then Kirvy Peresta, 8.1. [Chief Engines of the East-lory Plant then	Elroy), and V.A. Nostov [Deputy Chief Process Inchest.]. Experiese 101 In Mechanisation and Automation Baydenov, V.B., [Chief Engleer of the Elan'sbreity elektronekhanishesty saved Elan'sbr Electromechanical Fantl, and E. Ts. Pelissky [Deputy Chief Plant Engineer]. Pull Mechanization and Automatics at the Edific. 117	Mechanization and Automation (Cont.) 201 'yearshiy, F.B., and M.G. Tishnevski, [Englement]. The Experimental Model Sup of the Engrishmenty Plant) Flant)	Stepanov, S.F. (Deputy Chief Engineer of the Emarkovsky, stationaved Emarkov Machine-Tool Flant), and I.T. Practices (Chief Devices). Automatic and Semiautomatic Grindles Machines Kan 1917, 0.55, S.F. Emarkovsky, and I.M. 211 Period (Engineers). Automatic Third Services Machines	Lil ber, A.G. [Chief Process Engineer of the "Svet shikhters" Flant]. For Mechanization in Coal Mining. Card 4/8	

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AUTHOR: Frantsuzov, I.T.

TITLE: New machine tools of the Khar'kov Machine Tool Plant

PERIODICAL: Stanki i instrument, no. 9, 1961, 20-24

TEXT: The article presents general information on new circular grinders produced by the Khar'kovskiy stankostroitel'nyy zavod (Khar'kov Machine Tool Plant) where the production of automatic and semiautomatic machines started in 1955 and reached 43.5% of the total output in 1961. Fifty new general-purpose and special machine tool models are being produced, and six transfer lines of four types have been completed. The parts and component units of the new machines are 90-95% in line with the parts and components of the basic model in the range. The 351 (3A151) is the basic model for the 3515 (3B151), 34161 (3A161) and 35161 (3B161) machines. All semiautomatic and automatic grinders in a range have infeed mechanisms, hydraulically driven tailstocks, magnetic separators for coclants, and single-handle control. All may be fitted with automatic process control devices and used in automatic transfer lines. Brief design and operation description is given of the following units: the 3A151 and 3A161 base models for the new range of Card 1/4

New machining tools ...

circular grinders are designed for grinding cylindrical and up to 1:5 taper outer surfaces on work of a maximum diameter of 200 and 280 mm and a length of 700 and 1000 mm respectively. They have replaced the obsolete 3151 and 3161 grinders, their productivity being 30 to 35% higher. First class grinding accuracy is possible with the use of automatic process control. The new design features of the 3A151 and 3A161 include an oscillating mechanism for use in operation with infeed, a one-piece frame, smooth hydraulic table motion of 0.05-0.01 m/min; self-adjustable multi-bushing bearings of the grinding spindle. The 3A164 and 3A164A machines for cylindrical, tapered and stepped outer surfaces have replaced the obsolete 3354 and 3164A models and are the basic machines for a range of semiautomatic and special grinders. Heavy-duty 3A172 and 3A174 grinder: accommodate work of 560 and 800 mm in diameter and 4000 and 6000 mm in length respectively, with cylindrical and slightly tapered outer surface. They are produced to replace the obsolete 3172 and 3174 and are twice as accurate in periodical feed, have a wider range of workpiece rotation adjustment, stepless velocity adjustment of the grinding wheel and weigh 7 tons less. This results in a 25-30% higher work productivity, improved accuracy of dimensions and surface finish. Modifications of the 3A164 and 3A164A machines will be produced for general-purpose

Card 2/4

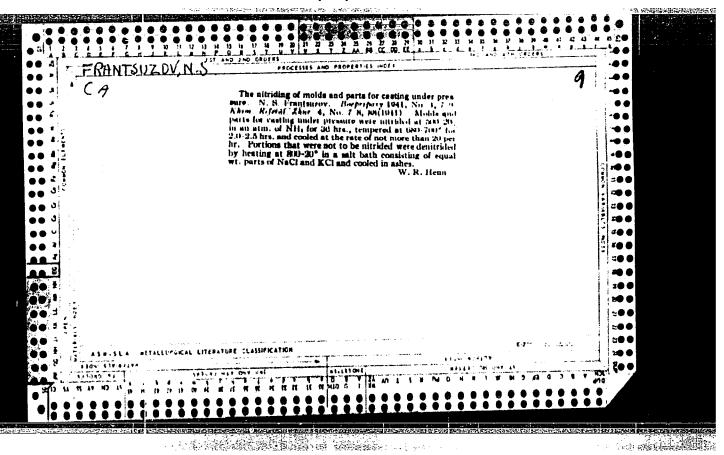
New machining tools...

and special work to replace the old machine range. The following machines are mentioned as items of particular interest: (1) 6 10 (6L10) transfer line for grinding of 1.25 million engine piston pins for the KA-35 (KD-35) tractor annually; (2) two 6 16 (6116) transfer lines for grinding 2.5 million caterpillar chain link pins for the C -80 (S-80) tractor annually; (3) 6**Λ**17 (6L17) transfer line for 1.25 million piston pins of the S-80 tractor annually; all three transfer lines consist of 6 (133 (68133) type centerless grinders; (4) two (KhShL-1) transfer line of four 20-280 (KhSh-280) automatic circular grinders for grinding trunnions on CMA (SMD) engine crankshafts at a rate of 40-45 crankshafts per hour; (5)XU-255 (KhSh-255) and U-257 (KhSh-257) automatic grinders with two grinding heads for simultaneous grinding of four trunnions and coaxial and butt surfaces on SMD engine crankshafts; (6) automatic 11 -256 (KhSh-256) grinder with one spindle head, designed for grinding 40-50 central trunnions of crankshafts per hour; this grinder is suitable for transfer lines and will be the basic model for transfer lines for crankshaft trunnions; (7) 11 -203 (KhSh-203) automatic grinder permitting simultaneous grinding of up to 5 different diameters on stepped shafts, distribution shafts or similar parts of up to 80mm in diameter and 900 mm in length; (8) Xu -280 (KhSh-280) automatic grinder Card 3/4

New machining tools...

for KhShL-1 transfer lines; (9) XM -248 (KhSh-248) semiautomatic finish grinder for bearing trunnions of the distributing shaft of the SMD engine; the grinder is resettable for other work; (10) a 3 K161 (3K161) base model outside grinder for work 280 x 700 mm in diameter, operating with infeed; (11) a XM -285 (KhSh-285) for grinding the spherical surfaces on inner races of onical roller bearings of three types and resettable for other race dimensions in a range of 50-100 mm of inside diameter, fully automatic operation and a productivity of up to 100-120 races per hour. The first lot of KhSh-285 grinders is produced for application in an automatic transfer line at the 9 773 (9GPZ). There are 10 figures.

Card 4/4



FRANTSUZOV, Yakov Leonovich; BELYAYEV, Leonid Mikhaylovich;

PLAVINSKIY, V.I., kand. tekhn. nauk, retsenzent;

VOYTSEKHOVSKIY, R.I., inzh., red.; GALANOVA, M.S., inzh., red. izd-va; UVAROVA, A.F., tekhn. red.

[Assembly and operation of suspended cableways] Montazh i ekspluatatsiia podvesnykh kanatnykh dorog. Moskva, Mashgiz, 1962. 275 p. (MIRA 15:3)

BELYAYEV, L.M., inzh.; ZELICHENOK, G.G., kand. tekhn. nauk; KOVFUNOV, A.B.;
MAZO, L.I., inzh.; IAKOVLEV, V.N., inzh., red.; PANESUZOV, Ka.L.,
inzh. red.; MOLYUKOV, G.A., inzh., red. izd-va; TIKHANOV, A.Ya.,
tekhn. red.

[Assembling hoisting and transportation machinery; a concise handbook] Montash pod emmo-transportnykh mashin; kratkoe spravochnoe
posobie. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry,
1958. 235 p.

(MIRA 11:7)

(Hoisting machinery)

BELYAYEV, Leonid Mikhaylovich; FRANTSUZOV, Yakov Leonovich; OBUKHOV, A.I.,
retsenzent; TSIFRINOVICH, A.Z., inzh., red.; STUPIN, A.K., red.
izd-va; EL'KIND, V.D., tekhn.red.

[Assembling of cranes and loaders] Montazh kranov i peregruzhatelei.
Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1958.
299 p. (MRA 11:5)

(Granes, derricks, etc.)

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BUDANOV, G.V., otv. za vypusk; REZNIKOV, A.I., otv. za vypusk; FRANTSUZOV, Ya.L., red.; PEVZNER, A.S., red.izd-va; OSENKO, L.M., tekhn.red.

[Cost manual for the assembling of equipment] TSennik na montash oborudovaniia. Izd.2. Moskva, Gos.izd-vo lit-ry po stroit., arkhit. i stroit.materialam. No.3. [Hoisting and transporting equipment] Pod memo-transportnoe oborudovanie. 1959. 205 p. (MIRA 13:3)

1. Russia (1923- U.S.S.R.) Gosudarstvennyy komitet po delam stroitel'stva. (Hoisting machinery) (Conveying machinery)

BELYAYEV, Leonid Mikhaylovich; FRANTSUZOV, Yakov Leonovich; KOPERIN, V.V., inzh., nauchnyy red.; TABUNINA, M.A., red. izd-va; MOCHALINA, Z.S., tekhn. red.

[Assembly of hoisting and conveying machinery with continuous and intermittent action] Montazh pod memno transportnykh mashin nepreryvnogo i preryvnogo deistviia. Moskva, Gosstroiizdat, 1962. 278 p. (MIRA 15:7) (Conveying machinery) (Hoisting machinery)

EELYAYEV, L.M.; FRANTSUZOV, Ya.L.; OEUKHOV, A.I., nauchm. red.;
ZHURAVLEV, B.A., red.

[Erecting freight and passenger suspended cableways]
Montazh gruzovykh i passazhirskikh podvesnykh kanatnykh dorog. Moskva, Stroiizdat, 1964. 250 p.

(MIRA 17:12)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413610016-9"

VOL'BERG, N.Ye.; GAYDAHAK, K.M.; DIMAT, M.P.; KOPERIN, V.V.;
MOLOKANOV, A.V.; NAUMOV, V.G.; PALAGIN, A.V.; TIMOFEYEV,
A.I.; FRANTSUZOV, Ya.L.; VOLNYANSKIY, A.K., glav. red.;
SUDAKOV, G.G., zam. glav. red.; IOSELOVSKIY, I.V., red.;
ORLOV, V.M., red.; ONKIN, A.K., red.; NIKOLAYEVSKIY,
Ye.Ya., red.; MARKOV, I.I., red.; MEL'NIK, V.I., red.;
STAROVEROV, I.G., red.; TUSHNYAKOV, M.D., red.; CHERNOV,
A.V., red.; KRYLOV, V.A., nauchn. red.

[Assembly of technological equipment of chemical plants]
Montazh tekhnologicheskogo oborudovaniia khimicheskikh
zavodov. Moskva, Stroiizdat, 1964. 619 p.

(NIRA 17:11)

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FRANTSUZOV, Ye. I.

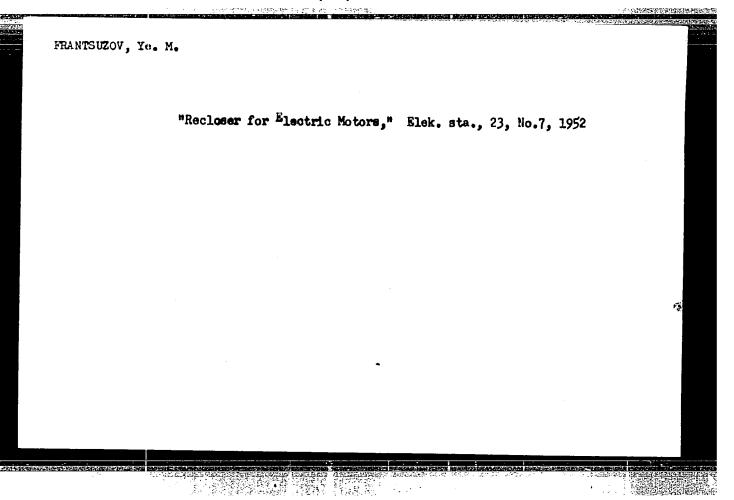
Cand Agr Sci - (diss) "Black-speckled cattle and methods of breeding them in the priokskiye rayons of the Moskovskaya and Ryazanskaya oblasts." Moscow, 1961. 17 pp; (Moscow Order of Lenin Agricultural Academy imeni K. A. Timiryazev); 200ccopies; price not given; (KL, 5-61 sup, 198)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413610016-9"

FRANTSUZOV, Ye.I., zasluzhennyy zootekhnik RSFSR

Some problems in the organization of breeding work in dairy farming. Zhivotnovodstvo 22 no.7:78-82 '6D. (MIRA 16:5) (Lukhovitsy District—Dairy cattle breeding)

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VINTER, A.V., akademik; KUKUSHKIN, I.N., inzhener; TRAPEZNIKOV, V.A.;

NIKOLAYEV, A.T., inzhener (Muromtsevo, Vladimirskoy obl.); KUDELIN,
Ya.M. (Muromtsevo, Vladimirskoy obl.); PETROV, I.I., dotsent, kandidat
tokhnicheskikh nauk (Moscow); BADALYANTS, M.G., inzhener; BELICHENKO,
G.M., inzhener; KLAPCHUK, L.D., inzhener; FRANTSUZOV, Ye.M., inzhener;
TAREYEV, B.M., professor, doktor tekhnicheskikh nauk; MAGIDSON, A.O.,
inzhener.

Improving the knowledge of power engineers through correspondence courses. Remarks on B.M.Tareev's and A.O.Magidson's article. Elektrichestvo no.3:76-80 Mr 154. (MLRA 7:4)

1. Energeticheskiy institut im. Krzhizhanovskogo Akademii nauk SSSR (for Vinter). 2. Glavnyy energetik Gor'kovskogo avtomobil'nogo zavoda im. Molotova (for Kukushkin). 3. Institut avtomatiki i telemekhaniki Akademii nauk SSSR (for Trapesnikov). 4. Chlen-korrespondent Akademii nauk SSSR (for Trapesnikov). 5. Leninakanges (for Badalyants). 6. Dnepropetrovskiy institut inzhenerov transporta (for Belichenko). 7. Kurakhovskaya gres (for Klapchuk). 8. Orekhovo-Zuyevskaya tets (for Frantsusov). 9. Vsesoyuznyy zaochnyy energeticheskiy institut (for Tareyev and Magidson).

AID P - 2423

FRANTSUZOV, X2.M.

Subject : USSR/Electricity

Card 1/1 Pub. 26 - 22/33

Author : Frantsuzov, E. M.

A CONTRACTOR OF THE PARTY OF TH Title On P. Zh. Ozol's article: "Automatic re-starting of

electric motors"

Periodical: Elek sta 5, 54, My 1955

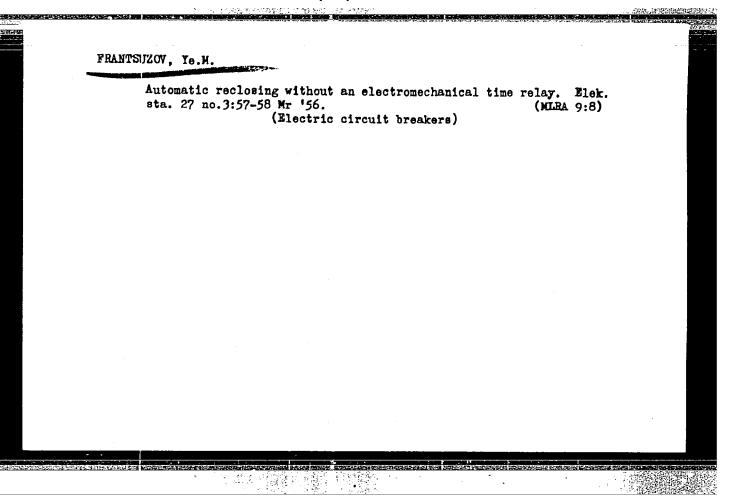
The author criticizes an article published in No 6, 1954 Abstract

issue of this journal on automatic reclosure and gives several suggestions. The article is accompanied by an

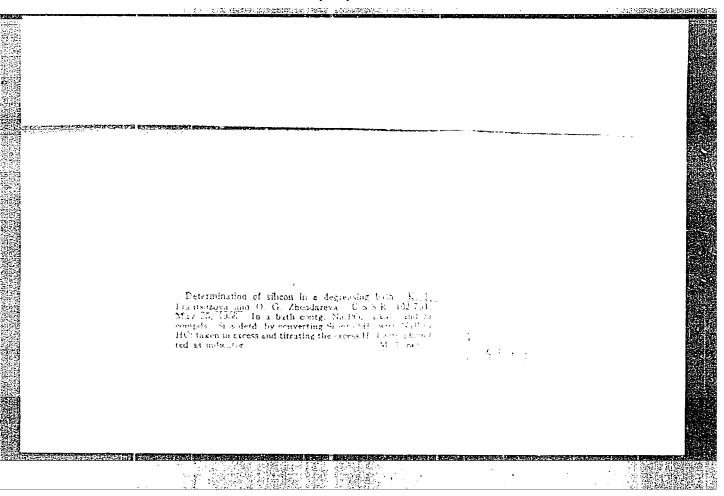
answer by \bar{P} . Zh. Ozol.

Institution: None

Submitted: No date



"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413610016-9 Ew1(d)/FSS-2 ACC NR. AT6015365 GD AUTHOR: SOURCE CODE: Karachentseva, N. Ya.; Frantsuzova, K. D.; Klavanskaya, F. G. UR/0000/65/000/000/0111/0119 ORG: none TITLE: The use of communications channels for data transmission SOURCE: AN BSSR. Institut tekhnicheskoy kibernetiki. Vychislitel'naya tekhnika (Com-Puter engineering). Minsk, Nauka i tekhnika, 1965, 111-119 TOPIC TAGS: dir communication, wire communication, pulse communication, radio communication, communication channel, communication coding, communication equipment, communication channel, communication coding, communication equipment, communication equipme cation, communication channel, communication could be communication equipment, communication system, data transmission, transmis-ABSTRACT: The authors describe various communication channels for data transmission in the Soviet Union and discuss their reliability. The development of a large network of information processing and computing centers in the Soviet Union has led to the utili-Zation of existing and new communication channels for the transmission of digital data. The reliability requirements for such transmission are much more stringent than for the transmission of verbal data since the digital numerical information is not naturally redundant. The following communication links are used at present: municipal automatic telephone networks, automatic teletype networks, semi-automatic and automatic intercity telephone networks, automatic telegraph links, and supersonic SUB CODE: 17/ CIA-RDP86-00513D4 APPROVED FOR RELEASE: 06/13/2000 Card 2/2 Adhe



CIA-RDP86-00513R000413610016-9 "APPROVED FOR RELEASE: 06/13/2000

AUTHOR:

Frantsuzova, T. A.

SOY/32-24-9-34/53

An Apparatus for the Determination of Carbon Monoxide (Pribor

TITLE:

dlya opredeleniya okisi ugleroda)

PERIODICAL:

Zavodskaya Laboratoriya, 1958, Vol 24, Nr 9, pp 1144-1145 (USSR)

ABSTRACT:

The apparatus described was designed for investigations in mines. For this reason, it had to be so built as to enable investigators to carry out air analyses without having to move into the polluted atmosphere. The measuring sensitivity must conform with the sanitary standards (0,0016% CO). The design was devised by B. A. Sosnovskiy, V. M. Zapol'skiy, T. A. Frantsuzova, V. G. Borisenko, V. T. Tyupa and P. M. Marner. The operation of the device is based on an oxidation of carbon monoxide to carbon dioxide by atmospheric oxygen, in the presence of hopcalite, and on a measurement of the reaction heat. The temperature increase produced by the resulting heat is measured by ironconstantan thermo-couples connected with a sensitive galvanometer of the type M-91. The measuring range of the device is specified to be from 0,00025 to 0,24% CO. Diagrams of the arrangement and of the heating chamber are given. The latter consists of a cylinder of stainless steel surrounding a second

Card 1/2

An Apparatus for the Determination of Carbon Monoxide

SOV/32-24-9-34/53

cylinder of hard rubber. The thermo-pile enclosed by the cylinders consists of 45 (of the above mentioned) thermo-couples. A table of the test results obtained with this apparatus is also presented.

There are 2 figures and 1 table.

ASSOCIATION:

Nauchno-issledovatel'skiy gornorudnyy institut, Krivcy Rog (Scientific Research Institute of Mining, Krivcy Rog)

Card 2/2